Reply to Final Office Action of 02/15/2007 Appl. No.: 10/709,522 Amendment Dated: 04/16/2007 Attorney Docket No.: ORCL-003/OID-2003-253-01

Listing of Claims

Claim 1 (Previously Presented): A method of implementing an atomic transaction 1 using a program logic, said method comprising: 2 requesting in said program logic a transaction identifier for said atomic transaction; 3 generating said transaction identifier in a transaction manager in response to said 4 requesting; 5 specifying in said program logic a plurality of combinations for execution in a 6 sequential order, wherein each of said plurality of combinations contains said transaction 7 identifier, a task procedure, and a rollback procedure, wherein said task procedure 8 implements a part of said atomic transaction and said rollback procedure is designed to 9 rollback said task procedure; 10 executing said task procedures in said sequential order; 11 keeping track of said rollback procedures in said transaction manager; and 12 executing said rollback procedures in a reverse order of said sequential order if said 13 atomic transaction is to be aborted, wherein said rollback procedures are identified according 14 to said keeping. 15 Claim 2 (Original): The method of claim 1, wherein said transaction identifier is 1 unique to each of the atomic transactions. 2 Claim 3 (Previously Presented): The method of claim 1, wherein said keeping 1 2 comprises storing data representing said rollback procedures in a stack. Claim 4 (Original): The method of claim 3, wherein said stack is stored in a memory. 1 Claim 5 (Original): The method of claim 1, further comprising examining a status 1

Claim 6 (Original): The method of claim 1, wherein said aborting is performed asynchronously.

returned by execution of one of said task procedures and performing said aborting if said

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status indicates an error.

Claims 7 (Previously Presented): A computer readable medium carrying one or more sequences of instructions representing a program logic for execution on a system, said program logic implementing an atomic transaction, wherein execution of said one or more sequences of instructions by one or more processors contained in said system causes said one or more processors to perform the actions of:

requesting an identifier for said atomic transaction;

setting a variable to equal said identifier;

specifying a plurality of combinations for execution, wherein each of said plurality of combinations contains said transaction identifier, a task procedure, and a rollback procedure, wherein said task procedure implements a part of said atomic transaction and said rollback procedure is designed to rollback said task procedure; and

aborting said atomic transaction by specifying said identifier associated with an abort procedure to cause said rollback procedures to be executed.

Claim 8 (Original): The computer readable medium of claim 7, wherein said specifying comprises including each of said plurality of combinations in a single procedure call.

Claim 9 (Original): The computer readable medium of claim 7, further comprising examining a status returned by execution of one of said task procedures and performing said aborting if said status indicates an error.

Claims 10 - 15 (Canceled)

Claim 16 (Previously Presented): A computer system comprising: a memory storing a plurality of instructions; and a processing unit coupled to said memory and executing said plurality of instructions to support implementation of an atomic transaction in a programming environment, said processing unit being operable to:

request in a program logic a transaction identifier for said atomic transaction; generate said transaction identifier in a transaction manager in response to said

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7	requesting;
8	specify in said program logic a plurality of combinations for execution in a sequential
9	order, wherein each of said plurality of combinations contains said transaction identifier, a
10	task procedure, and a rollback procedure, wherein said task procedure implements a part of
11	said atomic transaction and said rollback procedure is designed to rollback said task
12	procedure;
13	execute said task procedures in said sequential order;
14	keep track of said rollback procedures in said transaction manager; and
15	execute said rollback procedures in a reverse order of said sequential order if said
16	atomic transaction is to be aborted, wherein said rollback procedures are identified according
17	to said keeping.
1	Claim 17 (Original): The computer system of claim 16, wherein said transaction
2	identifier is unique to each of the atomic transactions.
1	Claim 18 (Previously Presented): The computer system of claim 16, wherein said
2	processing unit is operable to store data representing said rollback procedures in a stack to
3	perform said keep.
1	Claim 19 (Original): The computer system of claim 18, wherein said stack is stored
2	in a memory.
1	Claim 20 (Original): The computer system of claim 16, wherein said processing unit
2	is further operable to examine a status returned by execution of one of said task procedures
3	and to perform said aborting if said status indicates an error.
1	Claim 21 (Previously Presented): The computer system of claim 16, wherein said
2	processing unit is operable to execute said rollback procedures asynchronously.